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International Conference on Agricultural Genomics - Progress and Prospects organized by Centre for Plant Molecular Biology and Biotechnology - Date: 21 - 23 October 2021 Department of Sustainable Organic Agriculture, TNAU, Coimbatore organizes in person Training on Organic Agriculture in Tamil Version on 7th of Every Month

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[Tamil Nadu Agricultural University](#)

The prokaryote-derived CRISPR–Cas genome editing technology has altered plant molecular biology beyond all expectations. Characterized by robustness and high target specificity and ...

[Applications of CRISPR–Cas in agriculture and plant ...](#)

C. Transgenic animals and plants, molecular approaches to diagnosis and strain identification. D. Genomics and its application to health and agriculture, including gene therapy. E. Bioresource and uses of biodiversity. F. Breeding in plants and animals, including marker –

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assisted selection G. Bioremediation and phytoremediation H. Biosensors

[Biotechnology Notes](#)

Agricultural Biotechnology: A range of tools, including traditional breeding techniques, that alter living organisms, or parts of organisms, to make or modify products; improve plants or animals; or develop microorganisms for specific agricultural uses. Modern biotechnology today includes the tools of genetic engineering.

[Agricultural Biotechnology Glossary | USDA](#)

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The Golgi apparatus, or Golgi complex, functions as a factory in which proteins received from the ER are further processed and sorted for transport to their eventual destinations: lysosomes, the plasma membrane, or secretion. In addition, as noted earlier, glycolipids and sphingomyelin are synthesized within the Golgi. In plant cells, the Golgi apparatus further serves as the site at which the ...

[The Golgi Apparatus - The Cell - NCBI Bookshelf](#)

In molecular cloning, a vector is a DNA molecule used as a vehicle to artificially carry foreign genetic material into

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another cell, where it can be replicated and/or expressed (e.g., plasmid, cosmid, Lambda phages). A vector containing foreign DNA is termed recombinant DNA. The four major types of vectors are plasmids, viral vectors, cosmids, and artificial chromosomes.

[Vector \(molecular biology\) - Wikipedia](#)

Bioline Reagents is a primary manufacturer of specialised molecular biology products for the life science industry and research markets. It manufactures reagents including ultra-pure nucleotides, DNA polymerases and mixes, DNA markers, competent cells, products for RNA analysis and other general reagents for

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Molecular plant biology. In this module we will look at the following aspects: the diversity of plant kingdom; mechanisms of plant signal transduction; methods of plant biotechnology and plant breeding, as well as their molecular aspects. 5 hours to complete. 4 videos (Total 20 min), 5 readings, 5 quizzes. See All 4 videos. Plants in ...

[Methods of molecular biology | Coursera](#)

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According to the international Society for environmental Biotechnology the environmental Biotechnology is defined as an environment that helps to develop, efficiently use and regulate the biological systems and prevent the environment from pollution or from contamination of land, air and water have work efficiently to sustain an environment â ...

[Environmental-Biotechnology - Biotechnology Information](#)

In molecular biology and genetics, transformation is the genetic alteration of a cell resulting from the direct

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uptake and incorporation of exogenous genetic material from its surroundings through the cell membrane(s). For transformation to take place, the recipient bacterium must be in a state of competence, which might occur in nature as a time-limited response to environmental conditions ...

[Transformation \(genetics\) - Wikipedia](#)

Cells are composed of water, inorganic ions, and carbon-containing (organic) molecules. Water is the most abundant molecule in cells, accounting for 70% or more of total cell mass. Consequently, the interactions between water and the other constituents of cells are of

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central importance in biological chemistry. The critical property of water in this respect is that it is a polar molecule, in ...

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